CLAIM AMENDMENTS

Claim Amendment Summary

Claims pending

- Before this Amendment: Claims 1-23.
- After this Amendment: Claims 1-23.

Non-Elected, Canceled, or Withdrawn claims: 12

Amended claims: 1-11 and 13-23.

New claims: none

Claims:

(Currently Amended) In an interactive operating 1. environment a A computer storage readable medium for facilitating resolution of partially unresolved input, the medium having computer executable instructions, the instructions comprising:

receiving a set of objects output from a prior command via an object-based command pipeline; and

processing the set of objects using an operating environment mechanism to resolve each object in the set into a data type parsing a sequence of object-based commands into individual

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object-based commands;

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associating each individual object-based command with at least

one execution element;

executing each execution element associated with each individual

object-based command to produce output objects, the executing act

comprising processing each execution element in order of each

execution element's associated individual object-based commands in

the sequence of object-based commands and inputting into one or

more execution elements output objects produced from one or more

previously processed execution elements.

wherein the parsing, associating, and executing acts facilitate

resolution of partially unresolved input.

(Currently Amended) The computer <u>storage</u>

readable medium of claim 1, wherein the set of objects is associated with

a first data type and the processing by the mechanism comprises looking

up a conversion for converting the first data type to the data-type the

execution of each execution element is execution dependent upon an

execution-supporting operating environment in order to actually execute

and instructions further comprising resolving each object-based command

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in the sequence of object-based commands to a data type.

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3. (Currently Amended) The computer storage readable medium of claim 1 claim 2, wherein the data type is not natively supported by the operating environment, the processing by the mechanism further comprises retrieving extended information that defines the data type and creating an instance of the data type for each object object-based command in the set sequence.

4. (Currently Amended) The computer <u>storage</u> readable medium of claim 3, wherein the extended information comprises extended metadata and code, the extended metadata describes the data type and the code comprises additional instructions to populate the instance of the data type.

5. (Currently Amended) The computer storage readable medium of claim 1, further comprising receiving the sequence of object-based commands a string via the an object-based command pipeline, wherein the string sequence of object-based commands includes a wildcard and the processing by the mechanism further comprises producing a subset of the set of objects sequence of object-based commands based on the wildcard.

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6. (Currently Amended) The computer storage readable medium of claim 1, further comprising receiving the sequence of object-based commands a string via the an object-based command pipeline, wherein the string sequence of object-based commands includes a property set and the processing by the mechanism further comprises identifying a plurality of properties associated with the property set and processing the set of objects sequence of object-based commands based on the plurality of properties.

7. (Currently Amended) The computer storage readable medium of claim 1, further comprising receiving the sequence of object-based commands a string via the an object-based command pipeline, wherein the string sequence of object-based commands includes a relation and the processing by the mechanism further comprises finding items that the set of objects sequence of object-based commands consume based on the relation.

8. (Currently Amended) The computer storage readable medium of claim 1, further comprising receiving the sequence of object-based commands a string via the an object-based command pipeline, wherein the string sequence of object-based commands comprises a property path, the property path comprises a series of components that provide navigation to a desired property of each object object-based command in the set sequence.

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9. (Currently Amended)

The computer readable of claim 8, wherein the mechanism performs a look-up to resolve each component. The computer storage of claim 2, wherein the sequence of object-based commands is associated with a first data type and the processing further comprising looking up a conversion for converting the first data type to the data type.

10. (Currently Amended) The computer <u>storage</u> <u>readable</u> medium of <u>claim 9</u> <u>claim 8</u>, wherein each component comprises a property of each <u>object object-based command</u> in the <u>set sequence</u>, a method of each each <u>object object-based command</u> in the <u>set sequence</u>, a field of each each <u>object object-based command</u> in the <u>set sequence</u>, a third party property, or a third party <u>object method</u>.

11. (Currently Amended) The computer storage readable medium of claim 10, wherein the set of objects sequence of object-based commands is received as input to a subsequent command in the object-based command pipeline after processing the set of objects sequence of object-based commands using the operating environment mechanism.

12. (Canceled)

13. (Currently Amended) The computer <u>storage</u> readable medium of of <u>claim 9 claim 8</u>, wherein a component comprises a reference to registered code.

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14. (Currently Amended) A computer storage readable medium for facilitating resolution of partially unresolved input, the medium having computer executable instructions, the instructions comprising:

receiving one or more parseable input objects, the input objects being output from a prior command an already processed execution element that is associated with one or more object-based commands of a sequence of commands obtained via an object-based command pipeline within an execution-supporting operating environment, the one or more parseable input objects including content that uses a data type that is not natively supported by the execution-supporting operating environment, wherein the execution of an execution element is execution dependent upon the execution-supporting operating environment in order to actually execute;

retrieving extended information that defines the data type; and creating an instance of the data type,

wherein the receiving, retrieving, and creating acts facilitate resolution of partially unresolved input.

15. (Currently Amended) The computer <u>storage</u> readable medium of claim 14, wherein the <u>one or more</u> parseable input <u>objects</u> comprises a Windows Management Instrumentation (WMI) input, an ActiveX Data Object (ADO) input, an XML input, or a third party data format.

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- **16. (Currently Amended)** The computer <u>storage</u> readable medium of claim 14, wherein the extended information comprises extended metadata and code, the extended metadata describes the data type and the code comprises additional instructions to populate the instance of the data type.
- **17.** (Currently Amended) The computer <u>storage</u> readable medium of claim 14, wherein the <u>one or more</u> parseable input <u>objects</u> comprises a third party object that provides an additional property to an object supported natively within the <u>execution-supporting</u> operating environment.
- **18.** (Currently Amended) The computer <u>storage</u> readable medium of claim 14, wherein the <u>one or more</u> parseable input <u>objects</u> comprises an ontology service.

(Currently Amended) A system that extends data types 19. available to an operating environment, the system comprising:

a processor; and

a memory, the memory being allocated for a plurality of computerexecutable instructions which are loaded into the memory for execution by the processor, the computer-executable instructions comprising:

receiving parseable input output from a prior command via an object-based command pipeline within an operating environment, the parseable input including content that uses a data type that is not natively supported by the operating environment;

retrieving extended information that defines the data type; and creating an instance of the data type.

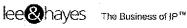
parsing a sequence of object-based commands into individual object-based commands:

associating each individual object-based command with at least one execution element;

executing each execution element associated with each individual object-based command to produce output objects, the executing act comprising processing each execution element in order of each execution element's associated individual object-based commands in the sequence of object-based commands and inputting into one or

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more execution elements output objects produced from one or more

previously processed execution elements.

wherein the parsing, associating, and executing acts facilitate

resolution of partially unresolved input

(Currently Amended) 20. The system of claim 19,

wherein the parseable input comprises a Windows Management

Instrumentation (WMI) input, an ActiveX Data Object (ADO) input, an XML

input, or a third party data format the execution of each execution element

is execution dependent upon an execution-supporting operating

environment in order to actually execute and instructions further

comprising resolving each object-based command in the sequence of

object-based commands to a data type.

21. (Currently Amended) The system of claim 19 claim

20, wherein the extended information comprises extended metadata and

code, the extended metadata describes the data type and the code

comprises additional instructions to populate the instance of the data type

the instructions further comprising receiving the sequence of object-based

commands via an object-based command pipeline, wherein the sequence

of object-based commands comprises a property path, the property path

comprises a series of components that provide navigation to a desired

property of each object-based command in the sequence.

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- (Currently Amended) 22. The system of claim 19 claim 21, wherein the parseable input comprises a third party object that provides an additional property to an object supported natively within the operating environment the extended information comprises extended metadata and code, the extended metadata describes the data type and the code comprises additional instructions to populate the instance of the <u>data type</u>.
- 23. (Currently Amended) The system of claim 19 claim 20, wherein the parseable input comprises an ontology service the sequence of object-based commands is associated with a first data type and the processing further comprising looking up a conversion for converting the first data type to the data type.